

**PATENT APPLICATION**  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q79092

Kazuo TAKAOKI, et al.

Appln. No.: Unknown

Confirmation No.: Unknown

Group Art Unit: Unknown

Filed: January 9, 2004

Examiner: Unknown

For: METAL COMPOUND, AND CATALYST COMPONENT AND CATALYST FOR  
ADDITION POLYMERIZATION, AND PROCESS FOR PRODUCING ADDITION  
POLYMER

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

1. U.S. Patent No. 4,542,199, issued September 17, 1985, to Kaminsky et al.
2. U.S. Patent No. 5,621,126, issued April 15, 1997, to Canich et al.
3. U.S. Patent No. 5,153,157, issued October 6, 1992, to Hlatky et al.
4. U.S. Patent No. 6,586,356, issued July 1, 2003, to Takaoki et al.
5. K.H. WHITMIRE et al., "Oligomerization and Oxide Formation in Bismuth Aryl Alkoxides: Synthesis and Characterization of  $\text{Bi}_4(\mu_4\text{-O})(\mu\text{-OC}_6\text{F}_5)_6\{\mu_3\text{-Obi}(\mu\text{-OC}_6\text{F}_5)_3\}_2(\text{C}_6\text{H}_5\text{CH}_3)$ ,  $\text{Bi}_8(\mu_4\text{-O})_2(\mu_3\text{-O})_2(\mu\text{-OC}_6\text{F}_5)_{16}$ ,  $\text{Bi}_6(\mu_3\text{-O})_4(\mu_3\text{-OC}_6\text{F}_5)\{\mu_3\text{-Obi}(\text{OC}_6\text{F}_5)_4\}_3$ ,  $\text{NaBi}_4(\mu_3\text{-O})_2(\text{OC}_6\text{F}_5)_9(\text{THF})_2$ , and  $\text{Na}_2\text{Bi}_4(\mu_3\text{-O})_2(\text{OC}_6\text{F}_5)_{10}(\text{THF})_2$ ", *Inorg. Chem.*, Vol. 39, 2000, pages 85-97.

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Information Disclosure Statement

6. C.M. JONES et al., "Hypervalent Bismuth Alkoxide Dimer Complexes: Syntheses, Structures, and Thermal Decompositions of  $[\text{Bi}(\text{OCH}(\text{CF}_3)_2)_2(\mu\text{-OCH}(\text{CF}_3)_2)(\text{THF})]_2$  and  $[\text{Bi}(\text{OC}_6\text{F}_5)_2(\mu\text{-OC}_6\text{F}_5)\text{X}_n]_2 \cdot z\text{Y}$  ( $\text{X} = \text{Y} = \text{C}_7\text{H}_8$ ,  $n = 1$ ,  $z = 1$  or  $2$ ;  $\text{X} = \text{THF}$ ,  $\text{Y} = \text{C}_6\text{H}_{14}$ ,  $n = 2$ ,  $z = 0$  or  $1$ )", *Inorg. Chem.*, Vol. 32, 1993, pages 5136-5144.

One copy of each of the listed documents, other than any U.S. patents and patent publications, is submitted herewith.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

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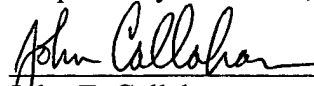
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23373

CUSTOMER NUMBER

Date: January 9, 2004

Respectfully submitted,



John T. Callahan  
Registration No. 32,607

Substitute for Form 1449 A & B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	Unknown
				Confirmation Number	Unknown
				Filing Date	January 9, 2004
				First Named Inventor	Kazuo TAKAOKI
				Art Unit	Unknown
				Examiner Name	Unknown
Sheet	1	of	1	Attorney Docket Number	Q79092

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US 4,542,199		09/17/1985	Kaminsky et al.
		US 5,621,126	A	04/15/1997	Canich et al.
		US 5,153,157	A	10/06/1992	Hlatky et al.
		US 6,586,356	B2	07/01/2003	Takaoki et al.
		US			
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FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
		K.H. WHITMIRE et al., "Oligomerization and Oxide Formation in Bismuth Aryl Alkoxides: Synthesis and Characterization of Bi <sub>4</sub> (μ <sub>4</sub> -O)(μ-OC <sub>6</sub> F <sub>5</sub> ) <sub>6</sub> {μ <sub>3</sub> -Obi(μ-OC <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> }(C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub> ), Bi <sub>8</sub> (μ <sub>4</sub> -O) <sub>2</sub> (μ <sub>3</sub> -O) <sub>2</sub> (μ-OC <sub>6</sub> F <sub>5</sub> ) <sub>16</sub> , Bi <sub>6</sub> (μ <sub>3</sub> -O) <sub>4</sub> (μ <sub>3</sub> -OC <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> {μ <sub>3</sub> -Obi(OC <sub>6</sub> F <sub>5</sub> ) <sub>4</sub> } <sub>3</sub> , NaBi <sub>4</sub> (μ <sub>3</sub> -O) <sub>2</sub> (OC <sub>6</sub> F <sub>5</sub> ) <sub>9</sub> (THF) <sub>2</sub> , and Na <sub>2</sub> Bi <sub>4</sub> (μ <sub>3</sub> -O) <sub>2</sub> (OC <sub>6</sub> F <sub>5</sub> ) <sub>10</sub> (THF) <sub>2</sub> ", <i>Inorg. Chem.</i> , Vol. 39, 2000, pages 85-97	
		C.M. JONES et al., "Hypervalent Bismuth Alkoxide Dimer Complexes: Syntheses, Structures, and Thermal Decompositions of [Bi(OCH(CF <sub>3</sub> ) <sub>2</sub> ) <sub>2</sub> (μ-OCH(CF <sub>3</sub> ) <sub>2</sub> )(THF)] <sub>2</sub> and [Bi(OC <sub>6</sub> F <sub>5</sub> ) <sub>2</sub> (μ-OC <sub>6</sub> F <sub>5</sub> )X <sub>n</sub> ] <sub>2</sub> ·zY (X = Y = C <sub>7</sub> H <sub>8</sub> , n = 1, z = 1 or 2; X - THF, Y = C <sub>6</sub> H <sub>14</sub> , n = 2, z = 0 or 1)", <i>Inorg. Chem.</i> , Vol. 32, 1993, pages 5136-5144	

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.